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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/086,563	03/04/2002	Tung Choi Cheng	200Scanner 5308		
31573 CYM GRAPHI	7590 03/08/2007 CS INC.		EXAMINER		
	N ST., UNIT 47	TAMAI, KARL I			
MARKHAM, ON L3R 4B5 CANADA			ART UNIT	PAPER NUMBER	
			2834		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	03/08/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Applica	ition No.	Applicant(s)				
		10/086	,563	CHENG, TUNG C	CHENG, TUNG CHOI			
		Examin	er	Art Unit				
•		Tamai I		2834				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed	lon .						
,—		b)∏ This action is	non-final.		•			
.—								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠	4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.							
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.								
·	6) Claim(s) 1-11 is/are rejected.							
7)	/) ☐ Claim(s) is/are objected to							
8)	Claim(s) are subject to restrict	ion and/or electior	ı requirement.					
Applicati	on Papers							
	·	Examiner						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>04 March 2002</u> is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) 🔲 Infor	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal 6) Other:						

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DETAILED ACTION

Drawings

1. Figures 1 and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Information Disclosure Statement

2. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

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Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).
- 3. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification. Particularly: there is no section in the application for cited US patents. The Applicant should delete the section between the title and the background of the invention.

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Claim Objections

4. Claims 1-11 are objected to because of the following informalities: Claims 1, 5, and 10 are objected to because the supporting means does not have antecedent basis. Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1 and 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Lassen (WO 97/26755). Lassen teaches a rotary optical scanner drum 1 with a multiple dimension shaft. The drum 1 having a base 2 transitioning between the drum and the shaft 25 with a locking ring 5 connecting the shaft to the drum base 1. Lassen shows the motor supported by different diameter bearings (padding) supported on different diameter portions of the shaft. Lassen teaches the motor 11, 12 in a cylindrical housing 10 which provides a supporting means for the bearings, and where the stator and rotor are parallel with the shaft and align with the axis of rotation.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 8. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lassen (WO 97/26755), in further view of Layne (US 1745547). Lassen teaches every aspect of the invention except a hollow cylindrical fastening with a thread for swivel locking. Layne teaches a cylindrical fastener 29 with threaded couplings on the motor shaft and the output shaft. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Lassen with the threaded coupling on the shaft and drum to connect the motor shaft to the motor output, as shown in Layne, and to interlock the shaft and drum shown in Lassen.
- 9. Claims 4, 8, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lassen (WO 97/26755), in further view of Takano (US 6680553). Lassen teaches every aspect of the invention except motor including coils on the stator, a magnetic field sensor mounted on the stator, permanent magnets for the rotor, and the edges of the shaft having infinite slope with the driving magnet and bearing (padding) fitted in the edges. Takano shows a multiple dimension shaft with steps for mounting the bearings 25, 26, and positioning the rotor 29 within the stator to operate as a motor or generator. Takano teaches the magnetic hall sensor mounted on the stator to provide easy circuit board mounting and electrical connection with the motor control. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the

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motor of Lassen with the stepped shaft positioning the drive magnets and the bearings to position the rotor within the stator and with the sensor to provide easy control of the motor, as taught by Takano.

- 10. Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lassen (WO 97/26755), in further view of Feiertag et al. (Feiertag)(US 2982504). Lassen teaches every aspect of the invention except the motor supported on a base by L shaped brackets with concealments at the endshields. Feiertag teaches the motor supported on a base by L shaped brackets 18 with concealments at the endshields 4 to provide simple assembly. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Lassen with the L shaped brackets of Feiertag.
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (571) 272 2036.

The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg, can be reached at (571) 272 - 2044. The facsimile number for the Group is (571) 273 - 8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl I Tamai PRIMARY PATENT EXAMINER March 4, 2007

WO 97/26755 2982504 6680553 1745547

PRIMARY EXAMINER